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September 29, 2017

VIA ELECTRONIC FILING

The Honorable Jocelyn G. Boyd
Chief Clerk/Administrator
Public Service Commission of South Carolina
101 Executive Center Drive, Suite 100
Columbia, South Carolina 29210

Re: **Duke Energy Progress, LLC – Monthly Fuel Report**
Docket No. 2006-176-E

Dear Ms. Boyd:

Pursuant to the Commission's Orders in Docket No. 1977-354-E, enclosed for filing is Duke Energy Progress, LLC's Monthly Fuel Report in Docket No. 2006-176-E for the month of August 2017.

Should you have any questions regarding this matter, please do not hesitate to contact me at 803-988-7130.

Sincerely,

A handwritten signature in blue ink, appearing to read "Rebecca Dulin", written in a cursive style.

Rebecca J. Dulin

Enclosure

cc: Service List

**Duke Energy Progress
Summary of Monthly Fuel Report**

Schedule 1

| Line No. | Item | August 2017 |
|-------------|--|----------------|
| 1 | Fuel and Fuel-related Costs excluding DERP incremental costs | \$ 154,752,115 |
| | MWH sales: | |
| 2 | Total System Sales | 6,376,239 |
| 3 | Less intersystem sales | 456,130 |
| 4 | Total sales less intersystem sales | 5,920,109 |
| 5 | Total fuel and fuel-related costs (¢/KWH) (Line 1/Line 4) | 2.6140 |
| 6 | Current fuel & fuel-related cost component (¢/KWH) (per Schedule 4) | 2.5273 |
| | Generation Mix (MWH): | |
| | Fossil (By Primary Fuel Type): | |
| 7 | Coal | 1,317,684 |
| 8 | Oil | 3,838 |
| 9 | Natural Gas - Combustion Turbine | 162,640 |
| 10 | Natural Gas - Combined Cycle | 1,837,418 |
| 11 | Total Fossil | 3,321,580 |
| 12 | Nuclear | 2,635,581 |
| 13 | Hydro - Conventional | 21,432 |
| 14 | Solar Distributed Generation | 23,371 |
| 15 | Total MWH generation | 6,001,964 |

Note: Detail amounts may not add to totals shown due to rounding.

Schedule 2

Duke Energy Progress
Details of Fuel and Fuel-Related Costs

| Description | August 2017 |
|---|-----------------------|
| Fuel and Fuel-Related Costs: | |
| Steam Generation - Account 501 | |
| 0501110 coal consumed - steam | \$ 43,559,867 |
| 0501310 fuel oil consumed - steam | 481,957 |
| Total Steam Generation - Account 501 | <u>44,041,824</u> |
| Nuclear Generation - Account 518 | |
| 0518100 burnup of owned fuel | 18,279,977 |
| Other Generation - Account 547 | |
| 0547000 natural gas consumed - Combustion Turbine | 7,675,565 |
| 0547000 natural gas consumed - Combined Cycle | 51,245,906 |
| 0547200 fuel oil consumed | 165,394 |
| Total Other Generation - Account 547 | <u>59,086,865</u> |
| Purchased Power and Net Interchange - Account 555 | |
| Fuel and fuel-related component of purchased power | 35,022,558 |
| Fuel and fuel-related component of DERP purchases | - |
| PURPA purchased power capacity | 7,841,805 |
| DERP purchased power capacity | - |
| Total Purchased Power and Net Interchange - Account 555 | <u>42,864,363</u> |
| Less fuel and fuel-related costs recovered through intersystem sales - Account 447 | 11,505,109 |
| Total Costs Included in Base Fuel Component | \$ 152,767,920 |
| Environmental Costs | |
| 0509030, 0509212, 0557451 emission allowance expense | \$ 5,041 |
| 0502020, 0502030, 0502040, 0502080, 0502090, 0548020 reagents expense | 2,226,112 |
| Emission Allowance Gains | - |
| Less reagents expense recovered through intersystem sales - Account 447 | 212,883 |
| Less emissions expense recovered through intersystem sales - Account 447 | <u>34,075</u> |
| Total Costs Included in Environmental Component | 1,984,195 |
| Fuel and Fuel-related Costs excluding DERP incremental costs | <u>\$ 154,752,115</u> |
| DERP Incremental Costs | 128,369 |
| Total Fuel and Fuel-related Costs | <u>\$ 154,880,484</u> |

Notes: Detail amounts may not add to totals shown due to rounding.

**DUKE ENERGY PROGRESS
PURCHASED POWER AND INTERCHANGE
SOUTH CAROLINA**

AUGUST 2017

**Schedule 3, Purchases
Page 1 of 2**

| Purchased Power | Total | Capacity | Non-capacity | | |
|---|----------------------|----------------------|---------------------|----------------------|--------------------|
| Marketers, Utilities, Other | \$ | \$ | mWh | Fuel \$ | Non-fuel \$ |
| Broad River Energy, LLC. | \$ 12,925,130 | \$ 10,942,126 | 31,868 | \$ 1,983,004 | - |
| City of Fayetteville | 3,043,201 | 3,002,250 | - | 40,951 | - |
| Haywood EMC | 29,850 | 29,850 | - | - | - |
| NCEMC | 6,624,088 | 5,704,813 | 24,491 | 919,275 | - |
| PJM Interconnection, LLC. | 45,984 | - | 1,838 | 45,984 | - |
| Southern Company Services | 4,925,430 | 1,654,380 | 100,037 | 3,271,050 | - |
| DE Carolinas - Native Load Transfer | 3,278,227 | - | 133,005 | 3,266,004 | \$ 12,223 |
| DE Carolinas - Native Load Transfer Benefit | 195,274 | - | - | 195,274 | - |
| Energy Imbalance | (263) | | (8) | (245) | (18) |
| Generation Imbalance | 429 | | 21 | 261 | 168 |
| | \$ 31,067,350 | \$ 21,333,419 | 291,252 | \$ 9,721,558 | \$ 12,373 |
| Act 236 PURPA Purchases | | | | | |
| Renewable Energy | \$ 24,107,190 | \$ - | 339,012 | \$ 24,107,190 | - |
| Other Qualifying Facilities | 9,035,615 | - | 125,979 | 9,035,615 | - |
| | \$ 33,142,805 | \$ - | 464,991 | \$ 33,142,805 | \$ - |
| Total Purchased Power | \$ 64,210,155 | \$ 21,333,419 | 756,243 | \$ 42,864,363 | \$ 12,373 |

NOTE: Detail amounts may not add to totals shown due to rounding.

**DUKE ENERGY PROGRESS
INTERSYSTEM SALES*
SOUTH CAROLINA**

AUGUST 2017

**Schedule 3, Sales
Page 2 of 2**

| | Total | Capacity | Non-capacity | | |
|---|----------------------|-------------------|---------------------|----------------------|-------------------|
| Sales | \$ | \$ | mWh | Fuel \$ | Non-fuel \$ |
| Utilities: | | | | | |
| SC Electric & Gas - Emergency | \$ 29,300 | - | 293 | \$ 7,864 | \$ 21,436 |
| Market Based: | | | | | |
| NCEMC Purchase Power Agreement | 1,191,969 | 652,500 | 14,237 | 426,015 | 113,454 |
| PJM Interconnection, LLC. | 59,679 | - | 1,698 | 62,906 | (3,227) |
| Other: | | | | | |
| DE Carolinas - Native Load Transfer Benefit | 636,081 | - | - | 636,081 | - |
| DE Carolinas - Native Load Transfer | 11,128,368 | - | 439,895 | 10,619,200 | 509,168 |
| Generation Imbalance | - | - | 7 | - | - |
| Total Intersystem Sales | \$ 13,045,397 | \$ 652,500 | 456,130 | \$ 11,752,066 | \$ 640,831 |

* Sales for resale other than native load priority.

NOTE: Detail amounts may not add to totals shown due to rounding.

Duke Energy Progress
(Over) / Under Recovery of Fuel Costs
August 2017

Schedule 4
Page 1 of 3

| Line No. | | | Total Residential | General Service Non-Demand | Demand | Lighting | Total |
|--|--|-----------------------|-------------------|-------------------------------|-------------|-----------|---------------|
| 1 | Actual System kWh sales | Input | | | | | 5,920,108,580 |
| 2 | DERP Net Metered kWh generation | Input | | | | | 348,667 |
| 3 | Adjusted System kWh sales | L1 + L2 | | | | | 5,920,457,247 |
| 4 | Actual S.C. Retail kWh sales | Input | 195,706,419 | 29,894,018 | 341,744,856 | 6,824,762 | 574,170,055 |
| 5 | DERP Net Metered kWh generation | Input | 191,798 | 6,911 | 149,959 | | 348,667 |
| 6 | Adjusted S.C. Retail kWh sales | L4 + L5 | 195,898,217 | 29,900,929 | 341,894,815 | 6,824,762 | 574,518,722 |
| 7 | Actual S.C. Demand units (kw) | L32 / 31b *100 | | | 691,771 | | |
| Base fuel component of recovery - non-capacity | | | | | | | |
| 8 | Incurred System base fuel - non-capacity expense | Input | | | | | \$133,045,319 |
| 9 | Eliminate avoided fuel benefit of S.C. net metering | Input | | | | | \$11,166 |
| 10 | Adjusted Incurred System base fuel - non-capacity expense | L8 + L9 | | | | | \$133,056,485 |
| 11 | Adjusted Incurred System base fuel - non-capacity rate (¢/kWh) | L10 / L3 * 100 | | | | | 2.247 |
| 12 | S.C. Retail portion of adjusted incurred system expense | L6 * L11 / 100 | \$4,402,621 | \$671,994 | \$7,683,751 | \$153,380 | \$12,911,746 |
| 13 | Assign 100 % of Avoided Fuel Benefit of S.C net metering | Input | (\$5,984) | (\$604) | (\$4,578) | \$0 | (\$11,166) |
| 14 | S.C. Retail portion of incurred system expense | L12 + L13 | \$4,396,637 | \$671,390 | \$7,679,173 | \$153,380 | \$12,900,580 |
| 15 | Billed base fuel - non-capacity rate (¢/kWh) - Note 1 | Input | 2.210 | 2.210 | 2.210 | 2.210 | 2.210 |
| 16 | Billed base fuel - non-capacity revenue | L4 * L15 /100 | \$4,325,398 | \$660,658 | \$7,552,561 | \$150,827 | \$12,689,444 |
| 17 | DERP NEM incentive - fuel component | Input | (\$1,569) | (\$158) | (\$1,200) | \$0 | (\$2,927) |
| 18 | Adjusted S.C. billed base fuel - non-capacity revenue | L16 + L17 | \$4,323,829 | \$660,500 | \$7,551,361 | \$150,827 | \$12,686,517 |
| 19 | S.C. base fuel - non-capacity (over)/under recovery [See footnote] | L18 - L14 | \$72,808 | \$10,890 | \$127,812 | \$2,553 | \$214,063 |
| 20 | Adjustment - Economic Purchases | Input | \$0 | \$0 | \$0 | \$0 | \$0 |
| 21 | Total S.C. base fuel - non-capacity (over)/under recovery [See footnote] | L19 + L20 | \$72,808 | \$10,890 | \$127,812 | \$2,553 | \$214,063 |
| Base fuel component of recovery - capacity | | | | | | | |
| 22a | Incurred base fuel - capacity rates by class (¢/kWh) | L23 / L4 * 100 | 0.524 | 0.346 | | | |
| 22b | Incurred base fuel - capacity rate (¢/kW) | L23 / L7 * 100 | | | 113 | | |
| 23 | Incurred S.C. base fuel - capacity expense | Input | \$1,025,113 | \$103,421 | 784,291.00 | | \$1,912,825 |
| 24a | Billed base fuel - capacity rates by class (¢/kWh) | Input | 0.471 | 0.371 | | | |
| 24b | Billed base fuel - capacity rate (¢/kW) | Input | | | 96 | | |
| 25 | Billed S.C. base fuel - capacity revenue | L24a * L4 /100 | \$922,570 | \$110,907 | \$ 664,216 | \$0 | \$1,697,693 |
| 26 | S.C. base fuel - capacity (over)/under recovery [See footnote] | L25 - L23 | \$102,543 | (\$7,486) | 120,075.00 | \$0 | \$215,132 |
| 27 | Adjustment | Input | \$0 | \$0 | \$0 | \$0 | \$0 |
| 28 | Total S.C. base fuel - capacity (over)/under recovery [See footnote] | L26 + L27 | \$102,543 | (\$7,486) | \$120,075 | \$0 | \$215,132 |
| Environmental component of recovery | | | | | | | |
| 29a | Incurred environmental rates by class (¢/kWh) | L30 / L4 * 100 | 0.053 | 0.035 | | | |
| 29b | Incurred environmental rate (¢/kW) | L30 / L7 * 100 | | | 11 | | |
| 30 | Incurred S.C. environmental expense | Input | \$103,132 | \$10,405 | \$78,904 | | \$192,441 |
| 31a | Billed environmental rates by class (¢/kWh) | Input | 0.035 | 0.024 | | | |
| 31b | Billed environmental rate (¢/kW) | Input | | | 7 | | |
| 32 | Billed S.C. environmental revenue | L31a * L4 /100 | \$67,979 | \$7,175 | \$ 48,424 | | \$123,578 |
| 33 | S.C. environmental (over)/under recovery [See footnote] | L32 - L30 | \$35,153 | \$3,230 | \$30,480 | \$0 | \$68,863 |
| 34 | Adjustment | Input | \$0 | \$0 | \$0 | \$0 | \$0 |
| 35 | Total S.C. environmental (over)/under recovery [See footnote] | L33 + L34 | \$35,153 | \$3,230 | \$30,480 | \$0 | \$68,863 |
| Distributed Energy Resource Program component of recovery: avoided costs | | | | | | | |
| 36a | Incurred S.C. DERP avoided cost rates by class (¢/kWh) | L37 / L4 * 100 | 0.000 | 0.000 | | | |
| 36b | Incurred S.C. DERP avoided cost rates by class (¢/kW) | L37 / L7 * 100 | | | 0.000 | | |
| 37 | Incurred S.C. DERP avoided cost expense | Input | - | - | - | | \$0 |
| 38a | Billed S.C. DERP avoided cost rates by class (¢/kWh) | Input | 0.000 | 0.000 | | | |
| 38b | Billed S.C. DERP avoided cost rates by class (¢/kW) | Input | | | 0.000 | | |
| 39 | Billed S.C. DERP avoided cost revenue | L38a * L4 /100 | \$0 | \$0 | \$0 | | \$0 |
| 40 | S.C. DERP avoided cost (over)/under recovery [See footnote] | L39 - L37 | \$0 | \$0 | \$0 | \$0 | \$0 |
| 41 | Adjustment | Input | \$0 | \$0 | \$0 | \$0 | \$0 |
| 42 | Total S.C. DERP avoided cost (over)/under recovery [See footnote] | L40 + L41 | \$0 | \$0 | \$0 | \$0 | \$0 |
| 43 | Total (over)/under recovery [See footnote] | L21 + L28 + L35 + L42 | \$210,504 | \$6,634 | \$278,367 | \$2,553 | \$498,058 |

Duke Energy Progress
(Over) / Under Recovery of Fuel Costs
August 2017

Schedule 4
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Year 2017-2018

Cumulative (over) / under recovery - **BASE FUEL NON-CAPACITY**

| | | | | | | |
|------------------------------|------------|-------------|------------|---------------|------------|---------------|
| Balance ending February 2017 | 6,872,181 | | | | | |
| March 2017 - actual | 9,008,686 | \$763,399 | \$98,306 | \$1,239,859 | \$34,941 | \$2,136,505 |
| April 2017 - actual | 10,494,432 | \$426,888 | \$62,439 | \$973,844 | \$22,575 | \$1,485,746 |
| May 2017 - actual | 9,808,868 | (\$173,333) | (\$27,502) | (\$475,412) | (\$9,317) | (\$685,564) |
| June 2017 - actual | 11,236,626 | \$488,131 | \$74,799 | \$844,641 | \$20,187 | \$1,427,758 |
| July 2017 - actual | 11,772,725 | \$172,369 | \$25,506 | \$332,436 | \$5,788 | \$536,099 |
| August 2017 - actual | 11,986,788 | \$72,808 | \$10,890 | \$127,812 | \$2,553 | \$214,063 |
| September 2017 - forecast | 10,512,957 | (\$499,791) | (\$60,463) | (\$891,675) | (\$21,902) | (\$1,473,831) |
| October 2017 - forecast | 8,655,913 | (\$538,620) | (\$79,463) | (\$1,209,130) | (\$29,831) | (\$1,857,044) |
| November 2017 - forecast | 7,175,613 | (\$431,594) | (\$62,582) | (\$962,457) | (\$23,667) | (\$1,480,300) |
| December 2017 - forecast | 7,006,227 | (\$67,692) | (\$6,310) | (\$93,035) | (\$2,349) | (\$169,386) |
| January 2018 - forecast | 6,843,603 | (\$68,637) | (\$6,015) | (\$85,851) | (\$2,121) | (\$162,624) |
| February 2018 - forecast | 5,657,955 | (\$469,517) | (\$43,457) | (\$656,565) | (\$16,109) | (\$1,185,648) |
| March 2018 - forecast | 5,377,127 | (\$101,021) | (\$11,065) | (\$164,738) | (\$4,004) | (\$280,828) |
| April 2018 - forecast | 4,153,186 | (\$365,358) | (\$51,469) | (\$787,818) | (\$19,296) | (\$1,223,941) |
| May 2018 - forecast | 3,093,876 | (\$299,148) | (\$47,577) | (\$695,757) | (\$16,828) | (\$1,059,310) |
| June 2018 - forecast | 2,730,255 | (\$113,222) | (\$16,138) | (\$228,709) | (\$5,552) | (\$363,621) |

Year 2017-2018

Cumulative (over) / under recovery - **BASE FUEL CAPACITY**

| | | | | | | |
|------------------------------|-----------|-------------|-----------|-------------|-----|-------------|
| Balance ending February 2017 | 893,261 | | | | | |
| March 2017 - actual | 806,670 | (\$56,692) | (\$2,999) | (\$26,900) | \$0 | (\$86,591) |
| April 2017 - actual | 855,256 | \$34,522 | \$2,742 | \$11,322 | \$0 | \$48,586 |
| May 2017 - actual | 863,837 | \$16,521 | (\$860) | (\$7,080) | \$0 | \$8,581 |
| June 2017 - actual | 1,093,070 | \$111,106 | \$8,714 | \$109,413 | \$0 | \$229,233 |
| July 2017 - actual | 1,329,570 | \$92,732 | (\$6,332) | \$150,100 | \$0 | \$236,500 |
| August 2017 - actual | 1,544,702 | \$102,543 | (\$7,486) | \$120,075 | \$0 | \$215,132 |
| September 2017 - forecast | 1,366,341 | (\$52,155) | \$483 | (\$126,689) | \$0 | (\$178,361) |
| October 2017 - forecast | 1,716,932 | \$189,232 | \$9,246 | \$152,113 | \$0 | \$350,591 |
| November 2017 - forecast | 1,843,296 | \$119,890 | \$4,033 | \$2,441 | \$0 | \$126,364 |
| December 2017 - forecast | 1,425,839 | (\$257,053) | \$170 | (\$160,574) | \$0 | (\$417,457) |
| January 2018 - forecast | 981,457 | (\$456,151) | (\$7,429) | \$19,198 | \$0 | (\$444,382) |
| February 2018 - forecast | 623,248 | (\$329,708) | (\$2,380) | (\$26,121) | \$0 | (\$358,209) |
| March 2018 - forecast | 578,350 | (\$34,488) | \$9,875 | (\$20,285) | \$0 | (\$44,898) |
| April 2018 - forecast | 830,029 | \$171,405 | \$10,905 | \$69,369 | \$0 | \$251,679 |
| May 2018 - forecast | 1,099,661 | \$212,728 | \$6,686 | \$50,218 | \$0 | \$269,632 |
| June 2018 - forecast | 985,459 | \$37,158 | (\$4,668) | (\$146,692) | \$0 | (\$114,202) |

Year 2017-2018

Cumulative (over) / under recovery - ENVIRONMENTAL

| | | | | | | |
|--------------------------------|-----------|------------|-----------|------------|-----|------------|
| 2 Balance ending February 2017 | (618,034) | | | | | |
| March 2017 - actual | (633,513) | (\$13,791) | (\$1,056) | (\$632) | \$0 | (\$15,479) |
| April 2017 - actual | (682,896) | (\$27,527) | (\$3,223) | (\$18,633) | \$0 | (\$49,383) |
| May 2017 - actual | (718,603) | (\$19,646) | (\$2,877) | (\$13,184) | \$0 | (\$35,707) |
| June 2017 - actual | (729,460) | (\$12,726) | (\$2,238) | \$4,107 | \$0 | (\$10,857) |
| July 2017 - actual | (639,166) | \$45,068 | \$4,415 | \$40,811 | \$0 | \$90,294 |
| August 2017 - actual | (570,303) | \$35,153 | \$3,230 | \$30,480 | \$0 | \$68,863 |
| September 2017 - forecast | (571,092) | \$2,074 | \$1,393 | (\$4,256) | \$0 | (\$789) |
| October 2017 - forecast | (571,842) | (\$859) | (\$91) | \$200 | \$0 | (\$750) |
| November 2017 - forecast | (608,494) | (\$16,393) | (\$1,576) | (\$18,683) | \$0 | (\$36,652) |
| December 2017 - forecast | (547,715) | \$29,591 | \$5,498 | \$25,690 | \$0 | \$60,779 |
| January 2018 - forecast | (384,920) | \$70,783 | \$10,688 | \$81,324 | \$0 | \$162,795 |
| February 2018 - forecast | (252,655) | \$64,264 | \$8,569 | \$59,432 | \$0 | \$132,265 |
| March 2018 - forecast | (213,743) | \$51,803 | (\$148) | (\$12,743) | \$0 | \$38,912 |
| April 2018 - forecast | (193,226) | \$41,584 | (\$1,772) | (\$19,295) | \$0 | \$20,517 |
| May 2018 - forecast | (174,372) | \$37,681 | (\$1,606) | (\$17,221) | \$0 | \$18,854 |
| June 2018 - forecast | (88,964) | \$47,988 | \$5,962 | \$31,458 | \$0 | \$85,408 |

Cumulative (over) / under recovery - DERP AVOIDED COSTS

| | | | | | | |
|----------------------------------|-----|-------|------|-------|-----|-------|
| _J2 Balance ending February 2017 | - | | | | | |
| March 2017 - actual | 0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| April 2017 - actual | 0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| May 2017 - actual | 0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| June 2017 - actual | 252 | \$135 | \$14 | \$103 | \$0 | \$252 |
| July 2017 - actual | 252 | \$0 | \$0 | \$0 | \$0 | \$0 |
| August 2017 - actual | 252 | \$0 | \$0 | \$0 | \$0 | \$0 |
| September 2017 - forecast | 252 | \$0 | \$0 | \$0 | \$0 | \$0 |
| October 2017 - forecast | 252 | \$0 | \$0 | \$0 | \$0 | \$0 |
| November 2017 - forecast | 252 | \$0 | \$0 | \$0 | \$0 | \$0 |
| December 2017 - forecast | 252 | \$0 | \$0 | \$0 | \$0 | \$0 |
| January 2018 - forecast | 252 | \$0 | \$0 | \$0 | \$0 | \$0 |
| February 2018 - forecast | 252 | \$0 | \$0 | \$0 | \$0 | \$0 |
| March 2018 - forecast | 252 | \$0 | \$0 | \$0 | \$0 | \$0 |
| April 2018 - forecast | 252 | \$0 | \$0 | \$0 | \$0 | \$0 |
| May 2018 - forecast | 252 | \$0 | \$0 | \$0 | \$0 | \$0 |
| June 2018 - forecast | 252 | \$0 | \$0 | \$0 | \$0 | \$0 |

Duke Energy Progress
(Over) / Under Recovery of Fuel Costs
August 2017

Schedule 4
Page 3 of 3

| Line No. | | | Residential | Commercial | Industrial | Total |
|--|--|-----------|-------------|------------|------------|-------------|
| Distributed Energy Resource Program component of recovery: incremental costs | | | | | | |
| 44 | Incurred S.C. DERP incremental expense | Input | \$68,795 | \$35,307 | \$24,267 | \$128,369 |
| 45 | Billed S.C. DERP incremental rates by account (\$/account) | Input | 1.00 | 2.88 | 99.56 | |
| 46 | Billed S.C. DERP incremental revenue | Input | \$137,698 | \$93,117 | \$26,537 | \$257,352 |
| 47 | S.C. DERP incremental (over)/under recovery [See footnote] | L44 - L46 | (\$68,903) | (\$57,810) | (\$2,270) | (\$128,983) |
| 48 | Adjustment | Input | \$0 | \$0 | \$0 | \$0 |
| 49 | Total S.C. DERP incremental (over)/under recovery [See footnote] | L47 + L48 | (\$68,903) | (\$57,810) | (\$2,270) | (\$128,983) |

| | | | | | | |
|------------------------------------|--|------------|-------------|------------|------------|-------------|
| Year 2017-2018 | | | | | | |
| Cumulative (over) / under recovery | | Cumulative | Residential | Commercial | Industrial | Total |
| _/2 Balance ending February 2017 | | 391,293 | | | | |
| March 2017 - actual | | 371,761 | (\$11,829) | (\$3,912) | (\$3,791) | (\$19,532) |
| April 2017 - actual | | 379,969 | \$3,069 | \$3,581 | \$1,558 | \$8,208 |
| May 2017 - actual | | 399,488 | \$8,882 | \$6,936 | \$3,701 | \$19,519 |
| June 2017 - actual | | 460,764 | \$31,063 | \$17,415 | \$12,798 | \$61,276 |
| July 2017 - actual | | 325,094 | (\$72,539) | (\$59,779) | (\$3,352) | (\$135,670) |
| August 2017 - actual | | 196,111 | (\$68,903) | (\$57,810) | (\$2,270) | (\$128,983) |
| September 2017 - forecast | | 194,222 | (\$4,636) | (\$18,281) | \$21,028 | (\$1,889) |
| October 2017 - forecast | | 211,934 | \$5,777 | (\$12,855) | \$24,790 | \$17,712 |
| November 2017 - forecast | | 283,799 | \$34,931 | \$2,010 | \$34,924 | \$71,865 |
| December 2017 - forecast | | 372,040 | \$43,796 | \$6,368 | \$38,077 | \$88,241 |
| January 2018 - forecast | | 392,457 | \$8,143 | (\$13,008) | \$25,282 | \$20,417 |
| February 2018 - forecast | | 412,193 | \$7,658 | (\$13,129) | \$25,207 | \$19,736 |
| March 2018 - forecast | | 431,638 | \$7,259 | (\$13,103) | \$25,289 | \$19,445 |
| April 2018 - forecast | | 450,869 | \$7,105 | (\$13,043) | \$25,169 | \$19,231 |
| May 2018 - forecast | | 469,477 | \$6,826 | (\$13,347) | \$25,129 | \$18,608 |
| June 2018 - forecast | | 487,800 | \$6,634 | (\$13,399) | \$25,088 | \$18,323 |

Notes:
Detail amounts may not recalculate due to percentages presented as rounded.
Presentation of over or under collected amounts reflects a regulatory asset or liability. Over collections, or regulatory liabilities, are shown as negative amounts.
Under collections, or regulatory assets, are shown as positive amounts.

_/1 Total residential billed fuel rate is a composite rate reflecting the approved residential rate of 2.246 and RECD 5% discount.
_/2 February 2017 ending balance reflects total adjustments of \$(129,849) pursuant to the docket no. 2017-1-E directive.

Duke Energy Progress
(Over) / Under Recovery of Fuel Costs
August 2017

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| Line No. | | | Residential | Commercial | Industrial | Total |
|--|--|-----------|-------------|------------|------------|-------------|
| Distributed Energy Resource Program component of recovery: incremental costs | | | | | | |
| 44 | Incurred S.C. DERP incremental expense | Input | \$68,795 | \$35,307 | \$24,267 | \$128,369 |
| 45 | Billed S.C. DERP incremental rates by account (\$/account) | Input | 1.00 | 2.88 | 99.56 | |
| 46 | Billed S.C. DERP incremental revenue | Input | \$137,698 | \$93,117 | \$26,537 | \$257,352 |
| 47 | S.C. DERP incremental (over)/under recovery [See footnote] | L44 - L46 | (\$68,903) | (\$57,810) | (\$2,270) | (\$128,983) |
| 48 | Adjustment | Input | \$0 | \$0 | \$0 | \$0 |
| 49 | Total S.C. DERP incremental (over)/under recovery [See footnote] | L47 + L48 | (\$68,903) | (\$57,810) | (\$2,270) | (\$128,983) |

| | | |
|------------------------------------|---------|------------|
| Year 2017-2018 | | |
| Cumulative (over) / under recovery | | |
| _/2 Balance ending February 2017 | 391,293 | |
| March 2017 - actual | 371,761 | (\$11,829) |
| April 2017 - actual | 379,969 | \$3,069 |
| May 2017 - actual | 399,488 | \$8,882 |
| June 2017 - actual | 460,764 | \$31,063 |
| July 2017 - actual | 325,094 | (\$72,539) |
| August 2017 - actual | 196,111 | (\$68,903) |
| September 2017 - forecast | 194,222 | (\$4,636) |
| October 2017 - forecast | 211,934 | \$5,777 |
| November 2017 - forecast | 283,799 | \$34,931 |
| December 2017 - forecast | 372,040 | \$43,796 |
| January 2018 - forecast | 392,457 | \$8,143 |
| February 2018 - forecast | 412,193 | \$7,658 |
| March 2018 - forecast | 431,638 | \$7,259 |
| April 2018 - forecast | 450,869 | \$7,105 |
| May 2018 - forecast | 469,477 | \$6,826 |
| June 2018 - forecast | 487,800 | \$6,634 |

Notes:
Detail amounts may not recalculate due to percentages presented as rounded.
Presentation of over or under collected amounts reflects a regulatory asset or liability. Over collections, or regulatory liabilities, are shown as negative amounts.
Under collections, or regulatory assets, are shown as positive amounts.

_/1 Total residential billed fuel rate is a composite rate reflecting the approved residential rate of 2.246 and RECD 5% discount.
_/2 February 2017 ending balance reflects total adjustments of \$(129,849) pursuant to the docket no. 2017-1-E directive.

Duke Energy Progress
Fuel and Fuel Related Cost Report
August 2017

Schedule 5
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| Description | Weatherspoon CT | Lee CC | Sutton CC/CT | Robinson Nuclear | Asheville Steam | Asheville CT | Roxboro Steam | Mayo Steam |
|--|--------------------|--------------|-----------------|---------------------|--------------------|-----------------|------------------|---------------|
| Cost of Fuel Purchased (\$) | | | | | | | | |
| Coal | - | - | - | - | \$4,665,464 | - | \$25,198,789 | \$4,704,362 |
| Oil | - | - | - | (756) | 257,200 | - | 164,948 | 64,771 |
| Gas - CC | - | 18,928,838 | 12,404,726 | - | - | - | - | - |
| Gas - CT | 23 | - | 976,042 | - | - | 522,188 | - | - |
| Total | \$23 | \$18,928,838 | \$13,380,768 | (756) | \$4,922,664 | \$522,188 | \$25,363,737 | \$4,769,133 |
| Average Cost of Fuel Purchased (¢/MBTU) | | | | | | | | |
| Coal | - | - | - | - | 313.63 | - | 314.99 | 305.30 |
| Oil | - | - | - | - | 1,565.33 | - | 1,236.58 | 1,577.86 |
| Gas - CC | - | 393.48 | 444.69 | - | - | - | - | - |
| Gas - CT | - | - | 820.78 | - | - | 399.44 | - | - |
| Weighted Average | - | 393.48 | 460.07 | - | 327.31 | 399.44 | 316.52 | 308.69 |
| Cost of Fuel Burned (\$) | | | | | | | | |
| Coal | - | - | - | - | \$5,097,720 | - | \$29,540,511 | \$8,921,636 |
| Oil - CC | - | - | - | - | - | - | - | - |
| Oil - Steam/CT | 36,420 | - | 16,796 | - | 37,025 | - | 265,138 | 179,795 |
| Gas - CC | - | 18,928,838 | 12,404,726 | - | - | - | - | - |
| Gas - CT | 23 | - | 976,042 | - | - | 522,188 | - | - |
| Nuclear | - | - | - | 4,105,804 | - | - | - | - |
| Total | \$36,443 | \$18,928,838 | \$13,397,564 | \$4,105,804 | \$5,134,745 | \$522,188 | \$29,805,649 | \$9,101,431 |
| Average Cost of Fuel Burned (¢/MBTU) | | | | | | | | |
| Coal | - | - | - | - | 303.61 | - | 316.47 | 314.90 |
| Oil - CC | - | - | - | - | - | - | - | - |
| Oil - Steam/CT | 1,507.45 | - | 2,033.41 | - | 1,353.25 | - | 1,264.85 | 1,312.66 |
| Gas - CC | - | 393.48 | 444.69 | - | - | - | - | - |
| Gas - CT | - | - | 820.78 | - | - | 399.44 | - | - |
| Nuclear | - | - | - | 69.31 | - | - | - | - |
| Weighted Average | 1,508.40 | 393.48 | 460.52 | 69.31 | 305.32 | 399.44 | 318.60 | 319.70 |
| Average Cost of Generation (¢/kWh) | | | | | | | | |
| Coal | - | - | - | - | 3.60 | - | 3.20 | 3.53 |
| Oil - CC | - | - | - | - | - | - | - | - |
| Oil - Steam/CT | 44.41 | - | 41.41 | - | 16.02 | - | 12.82 | 14.73 |
| Gas - CC | - | 2.87 | 3.18 | - | - | - | - | - |
| Gas - CT | - | - | 16.71 | - | - | 4.60 | - | - |
| Nuclear | - | - | - | 0.74 | - | - | - | - |
| Weighted Average | 57.85 | 2.87 | 3.38 | 0.74 | 3.62 | 4.60 | 3.22 | 3.59 |
| Burned MBTU's | | | | | | | | |
| Coal | - | - | - | - | 1,679,033 | - | 9,334,284 | 2,833,205 |
| Oil - CC | - | - | - | - | - | - | - | - |
| Oil - Steam/CT | 2,416 | - | 826 | - | 2,736 | - | 20,962 | 13,697 |
| Gas - CC | - | 4,810,615 | 2,789,504 | - | - | - | - | - |
| Gas - CT | - | - | 118,917 | - | - | 130,729 | - | - |
| Nuclear | - | - | - | 5,923,411 | - | - | - | - |
| Total | 2,416 | 4,810,615 | 2,909,247 | 5,923,411 | 1,681,769 | 130,729 | 9,355,246 | 2,846,902 |
| Net Generation (mWh) | | | | | | | | |
| Coal | - | - | - | - | 141,734 | - | 923,435 | 252,515 |
| Oil - CC | - | - | - | - | - | - | - | - |
| Oil - Steam/CT | 82 | - | 41 | - | 231 | - | 2,068 | 1,221 |
| Gas - CC | - | 659,327 | 389,990 | - | - | - | - | - |
| Gas - CT | (19) | - | 5,841 | - | - | 11,351 | - | - |
| Nuclear | - | - | - | 557,543 | - | - | - | - |
| Hydro (Total System) | | | | | | | | |
| Solar (Total System) | | | | | | | | |
| Total | 63 | 659,327 | 395,872 | 557,543 | 141,965 | 11,351 | 925,503 | 253,736 |
| Cost of Reagents Consumed (\$) | | | | | | | | |
| Ammonia | - | - | - | - | - | - | \$159,539 | \$41,536 |
| Limestone | - | - | - | - | 168,689 | - | 941,047 | 343,665 |
| Re-emission Chemical | - | - | - | - | - | - | 20,217 | - |
| Sorbents | - | - | - | - | - | - | 310,618 | 132,211 |
| Urea | - | - | - | - | 90,558 | - | - | - |
| Total | - | - | - | - | 259,246 | - | 1,431,420 | 517,412 |

Notes:

Detail amounts may not add to totals shown due to rounding.

Schedule excludes in-transit, terminal and tolling agreement activity.

Cents/MBTU and cents/kWh are not computed when costs and/or net generation is negative.

Fuel cost information on this report does not reflect intercompany sharing of fuel-related merger savings between Duke Energy Carolinas and Duke Energy Progress.

Lee and Wayne oil burn is associated with inventory consumption shown on Schedule 6 for Wayne.

Duke Energy Progress
Fuel and Fuel Related Cost Report
August 2017

Schedule 5
Page 2 of 2

| Description | Brunswick Nuclear | Blewett CT | Wayne County CT | Darlington CT | Smith Energy Complex CC/CT | Harris Nuclear | Current Month | Total 12 ME August 2017 |
|--|----------------------|---------------|--------------------|------------------|----------------------------------|-------------------|------------------|----------------------------|
| Cost of Fuel Purchased (\$) | | | | | | | | |
| Coal | - | - | - | - | - | - | \$34,568,615 | \$341,684,509 |
| Oil | (1,750) | - | - | - | - | (2,760) | 481,653 | 17,227,362 |
| Gas - CC | - | - | - | - | 19,912,342 | - | 51,245,906 | 561,162,564 |
| Gas - CT | - | - | 106,270 | 840,235 | 5,230,807 | - | 7,675,565 | 106,227,235 |
| Total | (\$1,750) | - | \$106,270 | \$840,235 | \$25,143,149 | (\$2,760) | \$93,971,739 | \$1,026,301,670 |
| Average Cost of Fuel Purchased (¢/MBTU) | | | | | | | | |
| Coal | - | - | - | - | - | - | 313.45 | 313.62 |
| Oil | - | - | - | - | - | - | 1,421.85 | 1,257.76 |
| Gas - CC | - | - | - | - | 357.71 | - | 389.21 | 425.16 |
| Gas - CT | - | - | 362.61 | 361.40 | 358.13 | - | 389.22 | 374.96 |
| Weighted Average | - | - | 362.61 | 361.40 | 357.80 | - | 358.66 | 379.22 |
| Cost of Fuel Burned (\$) | | | | | | | | |
| Coal | - | - | - | - | - | - | \$43,559,867 | \$316,444,695 |
| Oil - CC | - | - | - | - | 131 | - | 131 | 274,530 |
| Oil - Steam/CT | - | - | - | 112,046 | - | - | 647,220 | 18,142,937 |
| Gas - CC | - | - | - | - | 19,912,342 | - | 51,245,906 | 561,162,564 |
| Gas - CT | - | - | 106,270 | 840,235 | 5,230,807 | - | 7,675,565 | 106,227,235 |
| Nuclear | 9,290,538 | - | - | - | - | 4,883,635 | 18,279,977 | 194,716,527 |
| Total | \$9,290,538 | \$0 | \$106,270 | \$952,281 | \$25,143,280 | \$4,883,635 | \$121,408,666 | \$1,196,968,489 |
| Average Cost of Fuel Burned (¢/MBTU) | | | | | | | | |
| Coal | - | - | - | - | - | - | 314.59 | 310.38 |
| Oil - CC | - | - | - | - | 1,637.50 | - | 1,637.50 | 1,799.50 |
| Oil - Steam/CT | - | - | - | 1,703.60 | - | - | 1,370.82 | 1,382.69 |
| Gas - CC | - | - | - | - | 357.71 | - | 389.21 | 425.16 |
| Gas - CT | - | - | 362.61 | 361.40 | 358.13 | - | 389.22 | 374.96 |
| Nuclear | 63.05 | - | - | - | - | 65.45 | 65.00 | 64.67 |
| Weighted Average | 63.05 | - | 362.61 | 398.33 | 357.80 | 65.45 | 212.43 | 211.97 |
| Average Cost of Generation (¢/kWh) | | | | | | | | |
| Coal | - | - | - | - | - | - | 3.31 | 3.32 |
| Oil - CC | - | - | - | - | 13.10 | - | 13.10 | 52.09 |
| Oil - Steam/CT | - | - | - | 50.36 | - | - | 16.87 | 18.21 |
| Gas - CC | - | - | - | - | 2.53 | - | 2.79 | 3.04 |
| Gas - CT | - | - | 5.10 | 4.71 | 4.17 | - | 4.72 | 4.17 |
| Nuclear | 0.67 | - | - | - | - | 0.70 | 0.69 | 0.68 |
| Weighted Average | 0.67 | - | 5.10 | 5.27 | 2.75 | 0.70 | 2.02 | 2.00 |
| Burned MBTU's | | | | | | | | |
| Coal | - | - | - | - | - | - | 13,846,522 | 101,953,799 |
| Oil - CC | - | - | - | - | 8 | - | 8 | 15,256 |
| Oil - Steam/CT | - | - | - | 6,577 | - | - | 47,214 | 1,312,149 |
| Gas - CC | - | - | - | - | 5,566,628 | - | 13,166,747 | 131,987,686 |
| Gas - CT | - | - | 29,307 | 232,494 | 1,460,600 | - | 1,972,047 | 28,330,135 |
| Nuclear | 14,735,941 | - | - | - | - | 7,461,587 | 28,120,939 | 301,096,591 |
| Total | 14,735,941 | - | 29,307 | 239,071 | 7,027,236 | 7,461,587 | 57,153,477 | 564,695,616 |
| Net Generation (mWh) | | | | | | | | |
| Coal | - | - | - | - | - | - | 1,317,684 | 9,517,854 |
| Oil - CC | - | - | - | - | 1 | - | 1 | 527 |
| Oil - Steam/CT | - | (28) | - | 223 | - | - | 3,837 | 99,632 |
| Gas - CC | - | - | - | - | 788,101 | - | 1,837,418 | 18,435,398 |
| Gas - CT | - | - | 2,082 | 17,848 | 125,536 | - | 162,640 | 2,548,254 |
| Nuclear | 1,376,905 | - | - | - | - | 701,133 | 2,635,581 | 28,519,566 |
| Hydro (Total System) | | | | | | | 21,432 | 404,496 |
| Solar (Total System) | | | | | | | 23,371 | 235,245 |
| Total | 1,376,905 | (28) | 2,082 | 18,071 | 913,638 | 701,133 | 6,001,964 | 59,760,971 |
| Cost of Reagents Consumed (\$) | | | | | | | | |
| Ammonia | - | - | - | - | \$18,033 | - | \$219,108 | \$2,210,626 |
| Limestone | - | - | - | - | - | - | 1,453,400 | 9,789,847 |
| Re-emission Chemical | - | - | - | - | - | - | 20,217 | 220,193 |
| Sorbents | - | - | - | - | - | - | 442,829 | 2,857,980 |
| Urea | - | - | - | - | - | - | 90,558 | 984,175 |
| Total | - | - | - | - | 18,033 | - | 2,226,112 | 16,062,822 |

Duke Energy Progress
Fuel & Fuel-related Consumption and Inventory Report
August 2017

Schedule 6
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| Description | Weatherspoon | Lee | Sutton | Robinson | Asheville |
|-----------------------------------|--------------|-----------|-----------|----------|-----------|
| Coal Data: | | | | | |
| Beginning balance | - | - | - | - | 125,658 |
| Tons received during period | - | - | - | - | 57,734 |
| Inventory adjustments | - | - | - | - | - |
| Tons burned during period | - | - | - | - | 64,661 |
| Ending balance | - | - | - | - | 118,731 |
| MBTUs per ton burned | - | - | - | - | 25.97 |
| Cost of ending inventory (\$/ton) | - | - | - | - | 78.84 |
| Oil Data: | | | | | |
| Beginning balance | 640,940 | - | 3,114,991 | 78,040 | 2,954,344 |
| Gallons received during period | - | - | - | - | 119,065 |
| Miscellaneous use and adjustments | (134) | - | - | - | (4,880) |
| Gallons burned during period | 17,261 | - | 5,989 | - | 19,894 |
| Ending balance | 623,545 | - | 3,109,002 | 78,040 | 3,048,635 |
| Cost of ending inventory (\$/gal) | 2.11 | - | 2.80 | 2.55 | 1.86 |
| Gas Data: | | | | | |
| Beginning balance | - | - | - | - | - |
| MCF received during period | - | 4,647,924 | 2,809,459 | - | 126,156 |
| MCF burned during period | - | 4,647,924 | 2,809,459 | - | 126,156 |
| Ending balance | - | - | - | - | - |
| Limestone/Lime Data: | | | | | |
| Beginning balance | - | - | - | - | 8,199 |
| Tons received during period | - | - | - | - | 3,208 |
| Inventory adjustments | - | - | - | - | - |
| Tons consumed during period | - | - | - | - | 4,013 |
| Ending balance | - | - | - | - | 7,394 |
| Cost of ending inventory (\$/ton) | - | - | - | - | 40.55 |

Notes:

Detail amounts may not add to totals shown due to rounding.

Schedule excludes in-transit, terminal and tolling agreement activity.

Gas is burned as received; therefore, inventory balances are not maintained.

The oil inventory data for Wayne reflects the common usage of the oil tank used for both Wayne and Lee units.

Duke Energy Progress
Fuel & Fuel-related Consumption and Inventory Report
August 2017

Schedule 6
Page 2 of 3

| Description | Roxboro | Mayo | Brunswick | Blewett | Wayne County |
|-----------------------------------|----------------|-------------|------------------|----------------|---------------------|
| Coal Data: | | | | | |
| Beginning balance | 1,089,884 | 410,364 | - | - | - |
| Tons received during period | 312,398 | 60,304 | - | - | - |
| Inventory adjustments | - | - | - | - | - |
| Tons burned during period | 365,313 | 110,190 | - | - | - |
| Ending balance | 1,036,969 | 360,478 | - | - | - |
| MBTUs per ton burned | 25.55 | 25.71 | - | - | - |
| Cost of ending inventory (\$/ton) | 80.85 | 80.97 | - | - | - |
| Oil Data: | | | | | |
| Beginning balance | 393,874 | 270,840 | 187,963 | 782,522 | 11,981,450 |
| Gallons received during period | 96,656 | 29,746 | - | - | - |
| Miscellaneous use and adjustments | (7,434) | (3,258) | - | - | - |
| Gallons burned during period | 151,169 | 99,376 | 9,758 | - | - |
| Ending balance | 331,927 | 197,952 | 178,205 | 782,522 | 11,981,450 |
| Cost of ending inventory (\$/gal) | 1.75 | 1.81 | 2.55 | 2.34 | 2.41 |
| Gas Data: | | | | | |
| Beginning balance | - | - | - | - | - |
| MCF received during period | - | - | - | - | 28,174 |
| MCF burned during period | - | - | - | - | 28,174 |
| Ending balance | - | - | - | - | - |
| Limestone/Lime Data: | | | | | |
| Beginning balance | 89,778 | 14,790 | - | - | - |
| Tons received during period | 35,193 | 9,830 | - | - | - |
| Inventory adjustments | - | - | - | - | - |
| Tons consumed during period | 24,311 | 8,194 | - | - | - |
| Ending balance | 100,660 | 16,426 | - | - | - |
| Cost of ending inventory (\$/ton) | 36.04 | 39.77 | - | - | - |

Duke Energy Progress
Fuel & Fuel-related Consumption and Inventory Report
August 2017

Schedule 6
Page 3 of 3

| Description | Darlington | Smith Energy Complex | Harris | Current Month | Total 12 ME August 2017 |
|-----------------------------------|-------------------|---------------------------------|---------------|--------------------------|------------------------------------|
| Coal Data: | | | | | |
| Beginning balance | - | - | - | 1,625,906 | 1,193,809 |
| Tons received during period | - | - | - | 430,436 | 4,292,370 |
| Inventory adjustments | - | - | - | - | 36,131 |
| Tons burned during period | - | - | - | 540,164 | 4,006,132 |
| Ending balance | - | - | - | 1,516,178 | 1,516,178 |
| MBTUs per ton burned | - | - | - | 25.63 | 25.45 |
| Cost of ending inventory (\$/ton) | - | - | - | 80.72 | 80.72 |
| Oil Data: | | | | | |
| Beginning balance | 9,932,357 | 8,137,542 | 284,804 | 38,759,667 | 38,624,288 |
| Gallons received during period | - | - | - | 245,467 | 9,925,256 |
| Miscellaneous use and adjustments | - | - | - | (15,706) | (224,711) |
| Gallons burned during period | 47,486 | 56 | - | 350,989 | 9,686,394 |
| Ending balance | 9,884,871 | 8,137,486 | 284,804 | 38,638,439 | 38,638,439 |
| Cost of ending inventory (\$/gal) | 2.36 | 2.32 | 2.55 | 2.35 | 2.35 |
| Gas Data: | | | | | |
| Beginning balance | - | - | - | - | - |
| MCF received during period | 225,802 | 6,790,010 | - | 14,627,525 | 154,887,458 |
| MCF burned during period | 225,802 | 6,790,010 | - | 14,627,525 | 154,887,458 |
| Ending balance | - | - | - | - | - |
| Limestone/Lime Data: | | | | | |
| Beginning balance | - | - | - | 112,767 | 93,861 |
| Tons received during period | - | - | - | 48,231 | 294,586 |
| Inventory adjustments | - | - | - | - | (10,346) |
| Tons consumed during period | - | - | - | 36,518 | 253,621 |
| Ending balance | - | - | - | 124,480 | 124,480 |
| Cost of ending inventory (\$/ton) | - | - | - | 36.80 | 36.80 |

Schedule 7

DUKE ENERGY PROGRESS
ANALYSIS OF COAL PURCHASED
AUGUST 2017

| STATION | TYPE | QUANTITY OF TONS DELIVERED | DELIVERED COST | DELIVERED COST PER TON |
|------------|-------------|-------------------------------|-------------------|---------------------------|
| ASHEVILLE | SPOT | - | - | - |
| | CONTRACT | 57,734 | \$ 4,574,278 | \$ 79.23 |
| | ADJUSTMENTS | - | 91,186 | - |
| | TOTAL | 57,734 | 4,665,464 | 80.81 |
| | | | | |
| MAYO | SPOT | - | - | - |
| | CONTRACT | 60,304 | 4,618,701 | 76.59 |
| | ADJUSTMENTS | - | 85,661 | - |
| | TOTAL | 60,304 | 4,704,362 | 78.01 |
| | | | | |
| ROXBORO | SPOT | - | - | - |
| | CONTRACT | 312,398 | 24,694,577 | 79.05 |
| | ADJUSTMENTS | - | 504,213 | - |
| | TOTAL | 312,398 | 25,198,789 | 80.66 |
| | | | | |
| ALL PLANTS | SPOT | - | - | - |
| | CONTRACT | 430,436 | 33,887,556 | 78.73 |
| | ADJUSTMENTS | - | 681,060 | - |
| | TOTAL | 430,436 | \$ 34,568,615 | \$ 80.31 |
| | | | | |

Schedule 8

**DUKE ENERGY PROGRESS
ANALYSIS OF COAL QUALITY RECEIVED
AUGUST 2017**

| STATION | PERCENT MOISTURE | PERCENT ASH | HEAT VALUE | PERCENT SULFUR |
|------------------|-----------------------------|------------------------|-----------------------|---------------------------|
| ASHEVILLE | 6.03 | 8.34 | 12,883 | 2.36 |
| MAYO | 6.14 | 8.57 | 12,776 | 1.98 |
| ROXBORO | 6.33 | 8.28 | 12,804 | 2.00 |

Schedule 9

**DUKE ENERGY PROGRESS
ANALYSIS OF OIL PURCHASED
AUGUST 2017**

| | ASHEVILLE | MAYO | ROXBORO |
|------------------------------|---------------------|---------------------|----------------------|
| VENDOR | Charlotte Tank Farm | Charlotte Tank Farm | Greensboro Tank Farm |
| SPOT/CONTRACT | Contract | Contract | Contract |
| SULFUR CONTENT % | 0 | 0 | 0 |
| GALLONS RECEIVED | 119,065 | 29,746 | 96,656 |
| TOTAL DELIVERED COST | \$ 257,200 | \$ 64,771 | \$ 164,948 |
| DELIVERED COST/GALLON | \$ 2.16 | \$ 2.18 | \$ 1.71 |
| BTU/GALLON | 138,000 | 138,000 | 138,000 |

Note:

Price adjustments of \$(1,750), \$(2,760) and \$(756) for the Brunswick, Harris and Robinson stations, respectively, are excluded.

Duke Energy Progress
Power Plant Performance Data
Twelve Month Summary
September, 2016 - August, 2017
Nuclear Units

| <u>Unit Name</u> | <u>Net Generation (mWh)</u> | <u>Capacity Rating (mW)</u> | <u>Capacity Factor (%)</u> | <u>Equivalent Availability (%)</u> |
|------------------|-----------------------------|-----------------------------|----------------------------|------------------------------------|
| Brunswick 1 | 8,138,904 | 938 | 99.05 | 97.77 |
| Brunswick 2 | 7,138,892 | 932 | 87.44 | 90.20 |
| Harris 1 | 7,508,609 | 928 | 92.36 | 90.25 |
| Robinson 2 | 5,733,161 | 741 | 88.32 | 86.83 |

**Duke Energy Progress
Power Plant Performance Data
Twelve Month Summary
September, 2016 through August, 2017
Combined Cycle Units**

| Unit Name | | Net Generation (mWh) | Capacity Rating (mW) | Capacity Factor (%) | Equivalent Availability (%) |
|-----------------------|-------------|-------------------------|-------------------------|------------------------|--------------------------------|
| Lee Energy Complex | 1A | 1,308,122 | 215 | 69.35 | 77.98 |
| Lee Energy Complex | 1B | 1,288,174 | 214 | 68.62 | 81.85 |
| Lee Energy Complex | 1C | 1,292,176 | 216 | 68.40 | 79.85 |
| Lee Energy Complex | ST1 | 2,417,350 | 379 | 72.84 | 81.24 |
| Lee Energy Complex | Block Total | 6,305,822 | 1,024 | 70.29 | 80.40 |
| Richmond County CC | 7 | 983,194 | 184 | 60.95 | 67.05 |
| Richmond County CC | 8 | 965,379 | 184 | 60.01 | 66.25 |
| Richmond County CC | ST4 | 1,123,531 | 173 | 74.00 | 72.36 |
| Richmond County CC | 9 | 1,358,792 | 208 | 74.58 | 80.78 |
| Richmond County CC | 10 | 1,373,227 | 208 | 75.37 | 81.06 |
| Richmond County CC | ST5 | 1,837,535 | 248 | 84.58 | 88.68 |
| Richmond County CC | Block Total | 7,641,658 | 1,205 | 72.39 | 77.64 |
| Sutton Energy Complex | 1A | 1,376,020 | 217 | 72.28 | 84.11 |
| Sutton Energy Complex | 1B | 1,421,743 | 217 | 74.68 | 86.13 |
| Sutton Energy Complex | ST1 | 1,697,753 | 267 | 72.72 | 92.14 |
| Sutton Energy Complex | Block Total | 4,495,516 | 701 | 73.19 | 87.48 |

Notes:

- Effective January 2017, a change in capacity rating methodology could impact performance trending against historical results reported prior to January 2017.
- Units in commercial operation for the full month are presented. Pre-commercial or partial month commercial operations are not included.

**Duke Energy Progress
Power Plant Performance Data
Twelve Month Summary
September, 2016 through August, 2017**

Intermediate Steam Units

| Unit Name | Net Generation (mWh) | Capacity Rating (mW) | Capacity Factor (%) | Equivalent Availability (%) |
|------------------|-------------------------------------|---------------------------------|--------------------------------|--|
| Mayo 1 | 1,810,669 | 743 | 27.83 | 86.88 |
| Roxboro 2 | 1,894,514 | 673 | 32.15 | 97.42 |
| Roxboro 3 | 2,136,341 | 697 | 35.00 | 89.82 |
| Roxboro 4 | 1,453,135 | 709 | 23.40 | 73.16 |

Notes:

- Effective January 2017, a change in capacity rating methodology could impact performance trending against historical results reported prior to January 2017.
- Units in commercial operation for the full month are presented. Pre-commercial or partial month commercial operations are not included.

**Duke Energy Progress
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September, 2016 through August, 2017
Other Cycling Steam Units**

| Unit Name | Net Generation (mWh) | Capacity Rating (mW) | Capacity Factor (%) | Operating Availability (%) |
|------------------|---------------------------------|---------------------------------|--------------------------------|---------------------------------------|
| Asheville 1 | 647,310 | 192 | 38.59 | 79.02 |
| Asheville 2 | 639,048 | 192 | 38.09 | 82.16 |
| Roxboro 1 | 997,910 | 380 | 29.99 | 96.20 |

Notes:

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**Duke Energy Progress
Power Plant Performance Data
Twelve Month Summary
September, 2016 through August, 2017
Combustion Turbine Stations**

| Station Name | Net Generation (mWh) | Capacity Rating (mW) | Operating Availability (%) |
|----------------------|---------------------------------|---------------------------------|---------------------------------------|
| Asheville CT | 134,634 | 362 | 88.69 |
| Blewett CT | -245 | 65 | 98.60 |
| Darlington CT | 89,010 | 882 | 87.65 |
| Richmond County CT | 1,839,530 | 893 | 92.63 |
| Sutton CT | -396 | 74 | 96.56 |
| Sutton Fast Start CT | 20,620 | 90 | 83.28 |
| Wayne County CT | 496,770 | 943 | 96.17 |
| Weatherspoon CT | -181 | 158 | 84.78 |

Notes:

- Effective January 2017, a change in capacity rating methodology could impact performance trending against historical results reported prior to January 2017.
- Units in commercial operation for the full month are presented. Pre-commercial or partial month commercial operations are not included.

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**Twelve Month Summary
September, 2016 through August, 2017
Hydroelectric Stations**

| Station Name | Net Generation (mWh) | Capacity Rating (mW) | Operating Availability (%) |
|---------------------|---------------------------------|---------------------------------|---------------------------------------|
| Blewett | 78,742 | 27.0 | 77.59 |
| Marshall | 3,563 | 4.0 | 31.13 |
| Tillery | 113,498 | 84.0 | 93.36 |
| Walters | 208,693 | 113.0 | 99.01 |

Notes:

- Effective January 2017, a change in capacity rating methodology could impact performance trending against historical results reported prior to January 2017.
- Units in commercial operation for the full month are presented. Pre-commercial or partial month commercial operations are not included.